Claims

Ciaiiiis	
[c1]	Having thus described the preferred embodiment, the invention is now claimed to be:
1.057	a nitride compound, for providing at least one of blue and ultraviolet emission;
	a nitride compound, for providing at least one of blue and ultraviolet emission;
_	an epoxy, embedded with a phosphor, mounted to the nitride compound; and
	a frame including a surface having an uneven portion contacting the epoxy.
[c2]	$\it 2$.The light emitting device as set forth in claim $\it 1$, wherein the compound includes one
	of binary compound materials, ternary compound materials, and quaternary compound
	materials.
[c3]	$oldsymbol{3}$. The light emitting device as set forth in claim $oldsymbol{2}$, wherein the nitride compound is one
(†c4) (†c4)	of a group II through group VI-nitride compound.
€ •fc41	4 .The light emitting device as set forth in claim 3 , wherein the nitride compound is a
i d	group III-nitride including GaN.
ini	
"[c5] ()	5. The light emitting device as set forth in claim 1, further including:
[c5]	a substrate, the nitride compound and the epoxy being mounted to the substrate.
₫ c6]	$\pmb{6}$.The light emitting device as set forth in claim $\pmb{5}$, wherein the substrate includes
1.4 -1.	sapphire.
[c7]. ()	7. The light emitting device as set forth in claim 1 , wherein the uneven portion is a
Jul.	designed surface.
(58)	$oldsymbol{\mathcal{S}}$.The light emitting device as set forth in claim $oldsymbol{I}$, wherein the phosphor converts the at
	least one of the blue and the ultraviolet emission from the nitride compound to a visible
	light, which is emitted from the frame.
[c9] h	9. The light emitting device as set forth in claim 1, wherein the frame further includes a
N.	smooth portion, substantially none of the phosphor embedded epoxy contacting the
A .	smooth portion.
[c10]	
	10 .A system for converting light from a first range of wavelengths to a second range of
	wavelengths, comprising:
	a semiconductor;
N.	

	a phosphor embedded epoxy contacting a first end of the semiconductor; and
	a frame contacting the phosphor embedded epoxy.
	a frame contacting the phosphor embedded epoxy.
[c11]	11 .The system for converting light from a first range of wavelengths to a second range
	of wavelengths as set forth in claim 10, wherein:
	the first range of wavelengths includes blue/ultraviolet light; and
	the second range of wavelengths includes visible light.
[c12]	12 . The system for converting light from a first range of wavelengths to a second range
	of wavelengths as set forth in claim 10 , wherein:
	the first range of wavelengths is greater than about 10 nanometers and less than about
	500 nanometers; and
	the second range of wavelengths is greater than about 400 nanometers and less than
	about 800 nanometers.
[c13]	13 .The system for converting light from a first range of wavelengths to a second range
i.	of wavelengths as set forth in claim 10, wherein the semiconductor includes:
	a substrate;
	a nitride compound, for providing at least one of blue and ultraviolet emission, mounted
J	on a first end of the substrate, the phosphor embedded epoxy being mounted on a
	second end of the substrate.
[c14]	14 .The system for converting light from a first range of wavelengths to a second range
	of wavelengths as set forth in claim 13 , wherein the nitride compound includes one of
	binary compound materials, ternary compound materials, and quaternary compound
	materials.
[c15]	15 .The system for converting light from a first range of wavelengths to a second range
	of wavelengths as set forth in claim 13, wherein the substrate is sapphire.
[c16]	16 .The system for converting light from a first range of wavelengths to a second range
1.10	of wavelengths as set forth in claim 10, wherein the frame includes a designed surface,
Mo.	

[c17]

17.A method of manufacturing a solid state lamp, comprising: mounting a phosphor embedded epoxy to a first end of a semiconductor including a

substantially all of the phosphor embedded epoxy contacting the designed surface.

[c19]

nitride, which provides at least one of blue and ultraviolet emission; and mounting the first end of the semiconductor to a frame via the phosphor embedded epoxy.

[c18] 18. The method of manufacturing a solid state lamp as set forth in claim 17, further including:

creating a designed surface on the frame, the second end of the semiconductor being mounted to the designed surface.

19. The method of manufacturing a solid state lamp as set forth in claim 17, further including: attaching an electrical contact to the semiconductor die.

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